

EARTH AND PLANETARY SCIENCE LETTERS
Volume 116, number 1 / 4, April 1993

CONTENTS

(Abstracted / indexed in: *Bulletin Signalétique, Chemical Abstracts, Current Contents, Geo Abstracts and GEOBASE, INSPEC, Mineralogical Abstracts, PASCAL / CNRS, PHYS / Physics Briefs and AGI's Bibliography and Index of Geology*)

Hotspots and sunspots: surface tracers of deep mantle convection in the Earth and Sun R.B. Stothers	1
A Coast Mountains provenance for the Valdez and Orca groups, southern Alaska, based on Nd, Sr, and Pb isotopic evidence G.L. Farmer, R. Ayuso and G. Plafker	9
Nd and Sr isotope chronostratigraphy of Colorado Plateau lithosphere: implications for magmatic and tectonic underplating of the continental crust E. Wendlandt, D.J. DePaolo and W.S. Baldwin	23
Basaltic volcanism in the Southern Basin and Range: no role for a mantle plume T.K. Bradshaw, C.J. Hawkesworth and K. Gallagher	45
Interpretation and tectonic implications of cooling histories: An example from the Black Mountains, Death Valley extended terrane, California D.K. Holm and R.K. Dokka	63
Geochemistry of the Pitcairn seamounts, I: source character and temporal trends J.D. Woodhead and C.W. Devey	81
Slow-spreading ridge-axis tectonics: evidence from the Lizard complex, UK S. Roberts, J.R. Andrews, J.M. Bull and D.J. Sanderson	101
Jurassic extension estimates for the North Sea 'triple junction' from flexural backstripping: implications for decompression melting models D.B. Hendrie, N.J. Kusznir and R.H. Hunter	113
Particle recycling in the TAG hydrothermal plume C.R. German and R.S.J. Sparks	129
The relationship between flow and permeability field in seafloor hydrothermal systems N.D. Rosenberg, F.J. Spera and R.M. Haymon	135
Fluxes of Th isotopes in the Santa Monica Basin, offshore California C.-A. Huh, T.-L. Ku, S. Luo, M.R. Landry and P.M. Williams	155
Acfer 182: search for the location of ^{15}N -enriched nitrogen in an unusual chondrite M.M. Grady and C.T. Pillinger	165
<i>Discussion</i>	
Metamorphic zones and field gradients in orogenic belts: Comment on "Tectonic controls of metamorphic field gradients" by L.J. Sonder and C.P. Chamberlain B. Harte and T.J. Dempster	181
Reply to comment by B. Harte and T.J. Dempster: "Metamorphic zones and field gradients in orogenic belts: Tectonic controls of metamorphic field gradients L.J. Sonder and C.P. Chamberlain	183
Author Index Volume 116	185

Authors may accompany their manuscripts with floppy disks

Please see the notes on the inside back cover and the guide at the back of this issue. Authors are requested to submit a completed checklist with each diskette. Additional copies of the guide and the checklist are available from the publisher. Please ensure that the disk version and the hardcopy are identical—discrepancies can lead to publication of the wrong version

- All authors are strongly encouraged to include with their manuscripts the facsimile number where they may be contacted. Communication by facsimile can greatly assist in speeding publication.
- Please note that with immediate effect all accepted manuscripts should be accompanied by a set of copies of figures and tables as well as the original camera-ready versions.



0012-821X(199304)116:1/4;1-N

